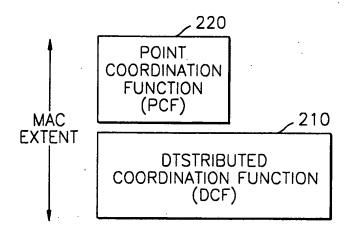


FIG. 2 (PRIOR ART)



TITLE: METHOD OF TRANSMITTING
MULTIMEDIA DATA OVER WLAN AND
POINT COORDINATOR IN WLAN
INVENTORS: Hyong-Uk CHOI et al
SERIAL NO.: Unassigned
DOCKET NO.: 1793.1093

CONTENTION PERIOD DCF(323) B=BEACON FRAME FORESHORTENED CFP(320) DELAY(DUE TO BUSY MEDIUM)(315) PCF 322 321 $\mathbf{\omega}$ BUSY MEDIUM CONTENTION PERIOD DCF(313) CFP REPETITION INTERVAL(310) CONTENTION—FREE PERIOD VARIABLE LENGTH (PER SUPERFRAME) PCF 312 330 Θ ¥ N

FIG. 3 (PRIOR ART)

TITLE: METHOD OF TRANSMITTING
MULTIMEDIA DATA OVER WLAN AND
POINT COORDINATOR IN WLAN
INVENTORS: Hyong-Uk CHOI et al
SERIAL NO.: Unassigned
DOCKET NO.: 1793.1093 Ux=FRAMES SENT BY POLLED STATIONS CONTENTION PERIOD Dx=FRAMES SENT BY POINT COORDINATIOR Max CFP Duration RESET NAV -END CONTENTION-FREE REPETITION INTERVAL(310) D4 +P0[[NO ' RESPONSE TO CF-POLI CONTENTION—FREE PERIOD(400) D3+ACK +POLL SIFS 410 D2+ACK +POLL +ACK 406 POL **BEACON** 402

NAV

FIG. 4 (PRIOR ART)

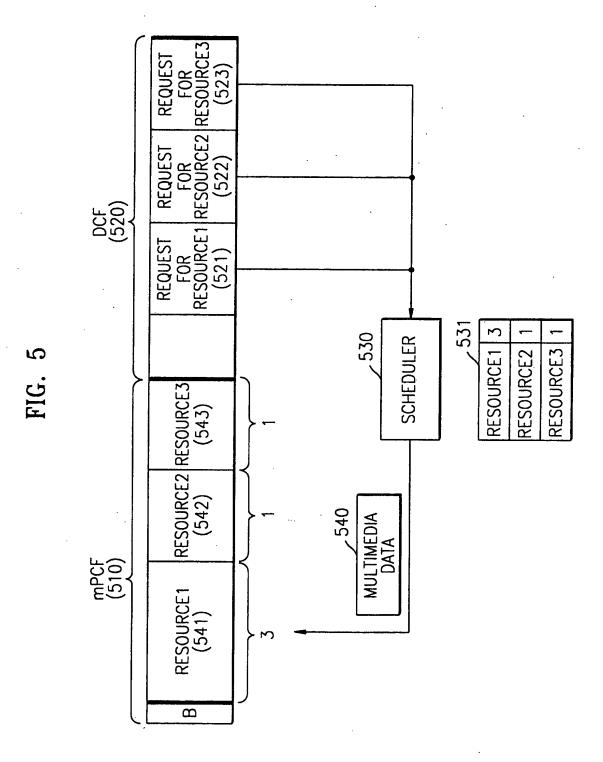


FIG. 6

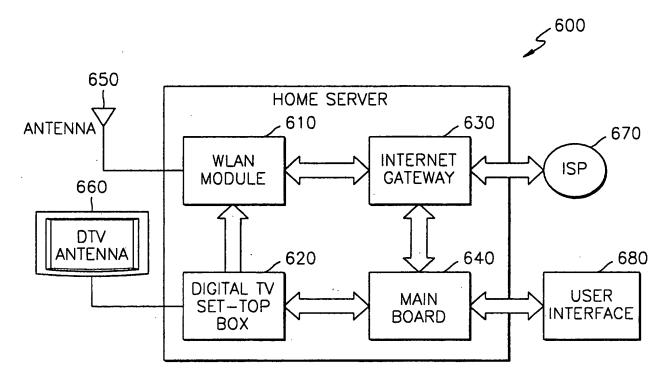


FIG. 7

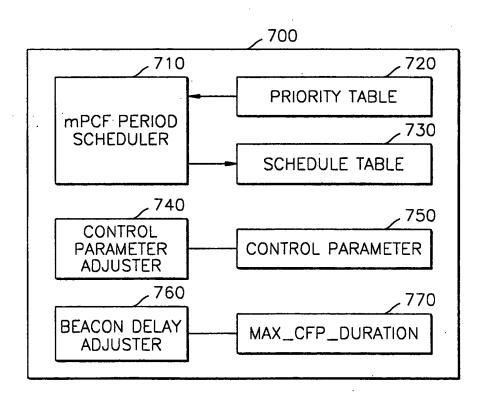


FIG. 8

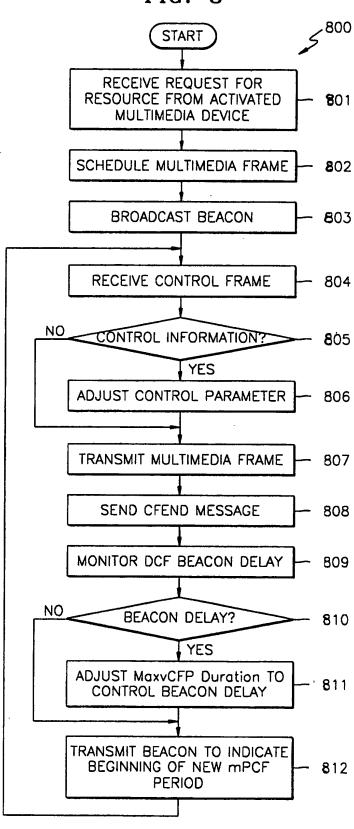


FIG. 9

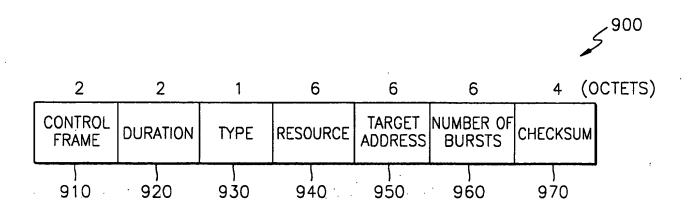


FIG. 10

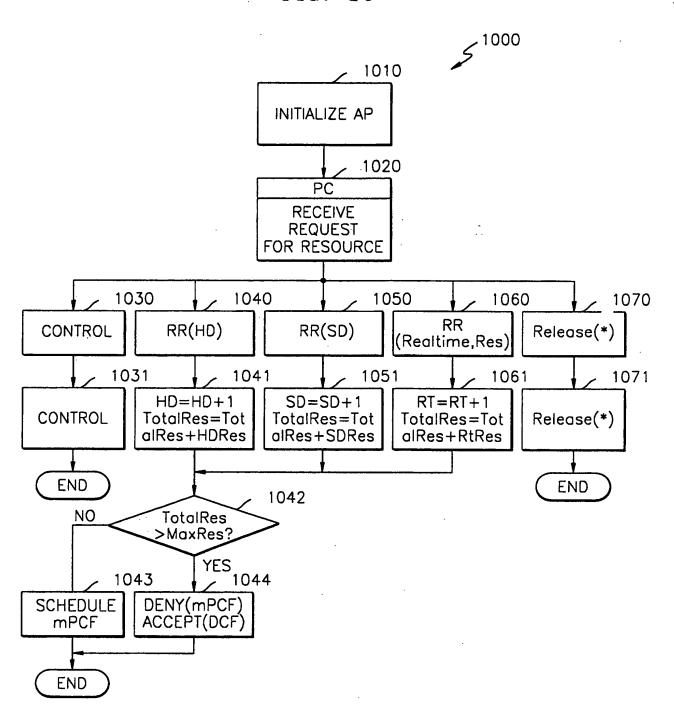


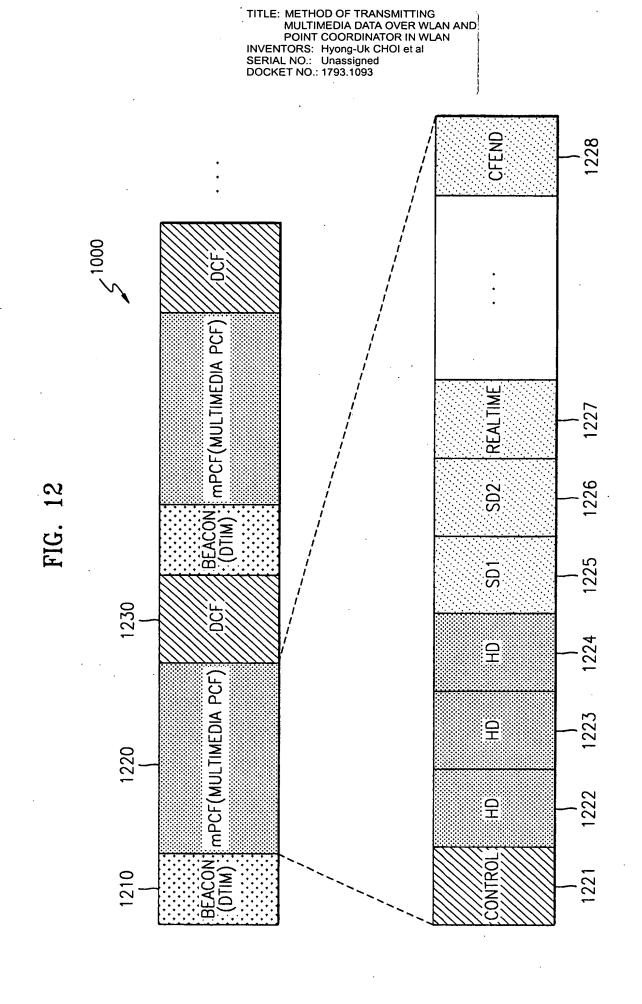
FIG. 11A

PRIORITY	TYPES OF DATA	REQUEST RESOURCE ALLOCATION BAND
0	CONTROL	CONTROL FRAME TRANSMISSIBLE SLOT
1	HDTV MPEG2(1080i OR 720p)	19.6Mbps
2	SDTV MPEG2(480i OR 480p)	3∼6Mbps
3	REALTIME DATA(VOD)	0.5~2Mbps
4	REGULAR DATA	CONTENTION - BASED

FIG. 11B

≤⁷³⁰

PRIORITY LEVEL	TARGET ADDRESS	RESOURCE	NUMBER OF BURSTS
1	HD ·	20Mbps	10
2	SD	6Mbps	1
3	SD	6Mbps	1



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1441	0			
	142(S	
	1410 1420 (1442 (1444		BEACON S	

0.9 DCF 0.1 1590 MaxCFPDuration 1560 1580 PCF 0.9 0.8 $\boldsymbol{\omega}$ BEACON DELAY 0.1 $\mathbf{\alpha}$ 1540 0.2 1520 PCF 0.8 മ

FIG. 16A

DIFS	BACKOFF	DATA	SIFS	ACK	TOTAL
34 μs	67.5 <i>μ</i> s	248.26 μs	16 <i>μ</i> s	24 μs	389.76 μs

FIG. 16B

DATA	SIFS	ACK	SIFS	TOTAL
248.26 μs	16 <i>μ</i> s	24 μs	16 <i>μ</i> s	304.26 <i>μ</i> s

FIG. 16C

DATA	SIFS		ACK	SIFS
248.26 μs	16 <i>μ</i> s	264.26μs X N	24 μs	16 <i>μ</i> s

INVENTORS: Hyong-Uk CHOI et al SERIAL NO.: Unassigned

DOCKET NO.: 1793.1093

FIG. 17A

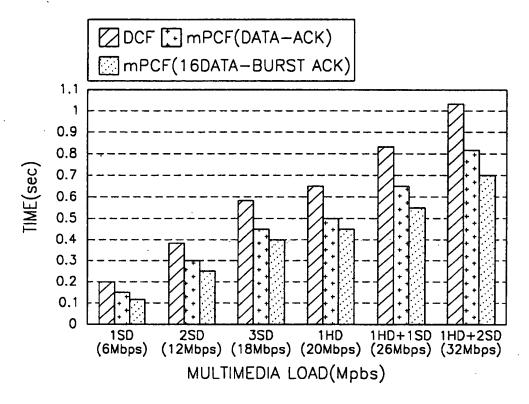


FIG. 17B

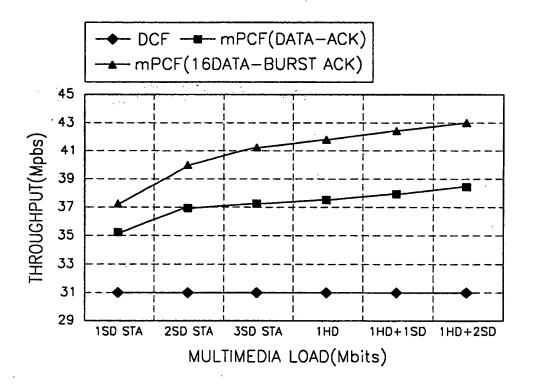


FIG. 17C

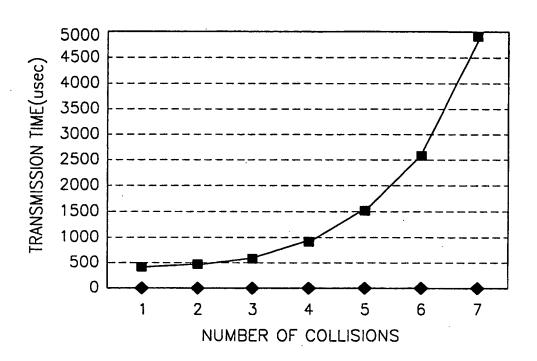


FIG. 18

1 sec - Ack Handshaking		
mPCF (0.789sec)	DCF (0.202sec)	